

### ABSTRACT OF THE DISCLOSURE

A memory device (**200**) can include memory cell arrays (**202-a** and **202-b**) accessed according to phase shifted clock signals. Memory cell array (**202-a**) can be accessed at double data rates essentially synchronous with clock signal CLK. Memory cell array (**202-b**) can be accessed at double data rates essentially synchronous with a phase delayed clock signal DCLK. Such an arrangement can provide eight data accesses (four reads and four writes) in a single clock cycle.

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